Inventions & Innovation Emerging Technology

Clemson Camshaft

The Clemson Camshaft is a variable-valve timing device for internal combustion engines. A camshaft controls the action of the valves that let mixed fuel and air into an engine and allow gases to escape. In the conventional camshaft, the valves open or close according to just one setting, which is not an optimal fuel economy level for all engine speeds. The Clemson camshaft consists of two shafts, one of which rotates inside the other. An infinite variety of valve settings is possible, theoretically allowing optimal valve action and greater fuel efficiency. The new camshaft's flexibility enables it to be used on double- and single-overhead camshafts and multivalve-per-cylinder engine arrangements.

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